

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Machine Id
834055
Component
Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

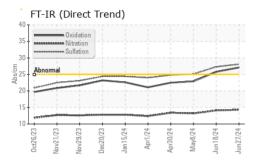
The BN level is low.

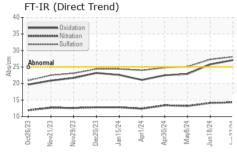
GEO LD 15W40 (GAL)	0ct2023 Nov2	023 Nov2023 Dec2023 Jan20	024 Aprž024 Aprž024 Mayž024 Junž	024 Jun2024	
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122897	GFL0122893	GFL0118791
Sample Date		Client Info		27 Jun 2024	18 Jun 2024	08 May 2024
Machine Age	nrs	Client Info		1456	1366	1170
Oil Age	nrs	Client Info		1366	1366	1170
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
lron p	opm	ASTM D5185m	>50	83	76	61
Chromium p	opm	ASTM D5185m	>4	2	2	2
Nickel p	opm	ASTM D5185m	>2	3	2	1
Titanium p	opm	ASTM D5185m		<1	0	0
Silver p	opm	ASTM D5185m	>3	<1	<1	<1
Aluminum p	opm	ASTM D5185m	>9	8	7	5
Lead p	opm	ASTM D5185m	>30	5	3	2
Copper	opm	ASTM D5185m	>35	23	20	20
Tin p	opm	ASTM D5185m	>4	4	3	3
Vanadium p	opm	ASTM D5185m		<1	0	0
Cadmium p	opm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron p	opm	ASTM D5185m	50	5	8	8
Barium p	opm	ASTM D5185m	5	4	1	<1
Molybdenum p	opm	ASTM D5185m	50	68	63	57
Manganese p	opm	ASTM D5185m	0	16	15	13
Magnesium p	opm	ASTM D5185m	560	820	880	802
Calcium	opm	ASTM D5185m	1510	1537	1547	1405
Phosphorus p	opm	ASTM D5185m	780	794	881	766
Zinc	opm	ASTM D5185m	870	1037	1087	981
Sulfur p	opm	ASTM D5185m	2040	2150	2874	2596
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon p	opm	ASTM D5185m	>+100	25	25	24
Sodium	opm	ASTM D5185m		7	8	7
	2 10 100	ASTM D5185m	>20	10	7	2
Potassium p	opm	AO INI DO IOOIII				
Potassium p INFRA-RED	opm	method	limit/base	current	history1	history2
INFRA-RED	ж %		limit/base	current 0.1	history1	history2
INFRA-RED Soot %		method				
INFRA-RED Soot % S Nitration A	%	method *ASTM D7844		0.1	0	0.1
INFRA-RED Soot % S Nitration A	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624	>20	0.1 14.3	0 14.1	0.1 13.2
INFRA-RED Soot % 9 Nitration A Sulfation A	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >30 limit/base	0.1 14.3 28.1	0 14.1 27.3	0.1 13.2 25.1

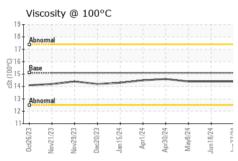
Base Number (BN) mg KOH/g ASTM D2896 10.2 **2.5**

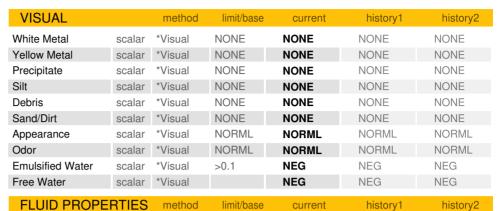


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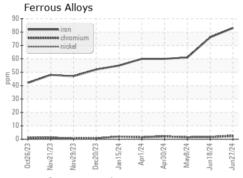


14.4

14.4

14.4

Visc @	100°C
GRA	PHS

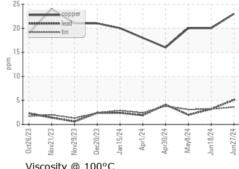


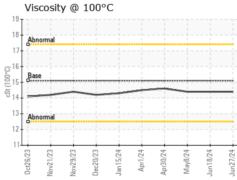
cSt

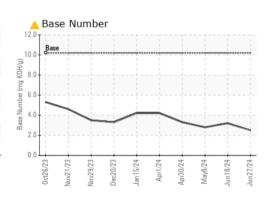
ASTM D445

15.1

Non-ferrous Metals











Certificate 12367

Sample No.

Lab Number : 06225649 Unique Number : 11103846 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0122897 Received : 01 Jul 2024

Tested : 02 Jul 2024 Diagnosed : 03 Jul 2024 - Don Baldridge

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701 Contact: SARA PATRICK spatrick@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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